Mathematics (BIT-202) BIT (Ind Sen) May-2010 Thie Alland: 21/2 Hay Man. marks: 80 Min. Pars marker: 32 Note: Attempt all questions from Sec. A & B & only Time questions from Section C. Section: A (very short answer type questions) Q1: i) Define set, subset & homer set. ii) Let A = {1,2,3,43, B= {2,4,7,83, fid (AUB (ANB) (ii) Find Lt n'-1 (iv) Enabrate It VI+n-1 V) Fid the derinative of (an+6)". vi) Tied the value of S(en+an)dn. vii) For a ∈ B, prone that (a1)'=a. vii) Define Boolean Algebra. Section: B (Short answer type questions) bab's televis o Q2' For any there set A,B,E, prone that (AUB) ne = (ADE) U(B1e) 03: Summate i) It en-1 (i) log (1+n) Q4! From first primiple, fid the desimation of no, new. 95: Sumply the suntiling cht P* q'+ q. Seition: C (Log answer types questions) O6: a) Define Carterian product of his sets. y A={3,5,73 6B={2,4,6,83, fd AxB&BXA. b) Draw the graph of the furtise $y = n^2$. (17: a) what do you mean by limit of a funtion, Also,